



# SEQUENCE LISTING

<110> BOUCKAERT, Anne-Marie  
JOFUKU, K. Diane

<120> METHODS OF ISOLATING AND/OR IDENTIFYING RELATED PLANT SEQUENCES

<130> 2750-1574P

<140> UNASSIGNED

<141> 2003-08-18

<150> US 09/512,882

<151> 2000-02-25

<150> US 60/121,700

<151> 1999-02-25

<160> 48

<170> PatentIn version 3.0

<210> 1

<211> 11

<212> PRT

<213> Arabidopsis and Brassica napus

<400> 1

Gly Arg Gly Lys Ile Glu Ile Lys Arg Ile Glu  
1 5 10

<210> 2

<211> 33

<212> DNA

<213> Arabidopsis and Brassica napus

<400> 2

gggaggggca agaucgagau caagcgcauc gag

33

<210> 3

<211> 33

<212> DNA

<213> Maize

<400> 3

gggagaggca agaucgagau caagcgcauc gag

33

<210> 4

<211> 33

<212> DNA

<213> Oryza sativa

<400> 4

gggaggggga agaucgagau caagcggauc gag

33

<210> 5  
<211> 33  
<212> DNA  
<213> Arabidopsis

<400> 5  
gggagaggaa agaucgaaau caaacggauc gag

33

<210> 6  
<211> 12  
<212> PRT  
<213> Arabidopsis and Brassica napus

<400> 6

Arg Ile Glu Asn Lys Ile Asn Arg Gln Val Thr Phe  
1 5 10

<210> 7  
<211> 36  
<212> DNA  
<213> Arabidopsis and Brassica napus

<400> 7  
aggauccgaga acaagaucaa caagcaggug accuuc

36

<210> 8  
<211> 36  
<212> DNA  
<213> Maize

<400> 8  
cggaucgaga acaagaucaa ccggcaggug accuuc

36

<210> 9  
<211> 36  
<212> DNA  
<213> Oryza sativa

<400> 9  
aggauccgaga acaagaucaa ccggcaggug acguuc

36

<210> 10  
<211> 36  
<212> DNA  
<213> Arabidopsis

<400> 10  
aggauagaga acaagaucaa aagacaagug acauuc

36

<210> 11  
 <211> 10  
 <212> PRT  
 <213> Arabidopsis and Brassica napus

<400> 11

Gly Arg Trp Glu Ser His Ile Trp Asp Cys  
 1 5 10

<210> 12  
 <211> 30  
 <212> DNA  
 <213> Arabidopsis and Brassica napus

<400> 12  
 ggcagguggg agucccacau cugggacugc 30

<210> 13  
 <211> 30  
 <212> DNA  
 <213> Maize

<400> 13  
 ggccgcuggg aaucccacau cugggacugc 30

<210> 14  
 <211> 30  
 <212> DNA  
 <213> Arabidopsis

<400> 14  
 ggaagauggg aaucucauau uugggacugu 30

<210> 15  
 <211> 6  
 <212> PRT  
 <213> Zea mays and Oryza sativa

<400> 15

Asp Cys Gly Leu Gln Val  
 1 5

<210> 16  
 <211> 21  
 <212> DNA  
 <213> Zea mays and Oryza sativa

<400> 16  
 ggactgtggg aaacaagttt a 21

<210> 17

<211> 21  
 <212> DNA  
 <213> Zea mays and Oryza sativa

<400> 17  
 ggactgtggg aaacaagttt a 21

<210> 18  
 <211> 21  
 <212> DNA  
 <213> Zea mays and Oryza sativa

<400> 18  
 ggactgcggg aagcaggtgt a 21

<210> 19  
 <211> 7  
 <212> PRT  
 <213> Zea mays and Oryza sativa

<400> 19

Lys Tyr Arg Gly Val Thr Leu  
 1 5

<210> 20  
 <211> 23  
 <212> DNA  
 <213> Zea mays and Oryza sativa

<400> 20  
 aagtatagag gtgtcacttt gca 23

<210> 21  
 <211> 23  
 <212> DNA  
 <213> Zea mays and Oryza sativa

<400> 21  
 tgcaaagtga cacctctata ctt 23

<210> 22  
 <211> 23  
 <212> DNA  
 <213> Zea mays and Oryza sativa

<400> 22  
 tgcaaagtga cacctctata ctt 23

<210> 23  
 <211> 23  
 <212> DNA

<213> Zea mays and Oryza sativa

<400> 23

aagtacaggg gcgtcacctt gca

23

<210> 24

<211> 23

<212> DNA

<213> Zea mays and Oryza sativa

<400> 24

tgcaaggtga cgcccctgta ctt

23

<210> 25

<211> 23

<212> DNA

<213> Zea mays and Oryza sativa

<400> 25

tgcaaggtga cgcccctgta ctt

23

<210> 26

<211> 489

<212> DNA

<213> Avena sativa ADC Gene

<400> 26

tacctaggtg agtcaaatt cccagctcca gctcctccta attaatctcc atctgttctg

60

tgtactgaag ttatttaatt tcgtcaggtg gtttcgacac cgcgcactcg gccgcgaggt

120

tataattaat caagcttcct agtttgaact ttcaacacat actgctctct ctcgattgga

180

ttgtactagc atcatgaact gtactgaaac gggctcttgct cagggcctac gatcgcgagg

240

cgatcaagtt ccggggactg gacgccgaca tcaacttcaa tctgagcgac tacgaggagg

300

atctgaagca ggtaactgaa taagatcgct tcctcaaattg cagcatagat attatcggtg

360

tgtgtgtgtc tgatgggtgg ttggtggccg gccgggact cttgtttttg ccagatgagg

420

aactggacca aggaggagtt cgtgcacatc ctccgccgcc agagcacggg gttcgcgagg

480

gggagctca

489

<210> 27

<211> 65

<212> PRT

<213> Avena sativa ADC PROTEIN

<400> 27

Gly Gly Phe Asp Thr Ala His Ser Ala Ala Arg Ala Tyr Asp Arg Ala

1	5							10					15				
Ala	Ile	Lys	Phe	Arg	Gly	Leu	Asp	Ala	Asp	Ile	Asn	Phe	Asn	Leu	Ser		
			20					25					30				
Asp	Tyr	Glu	Glu	Asp	Leu	Lys	Gln	Val	Thr	Asn	Trp	Thr	Lys	Glu	Glu		
			35					40					45				
Phe	Val	His	Ile	Leu	Arg	Arg	Gln	Ser	Thr	Gly	Phe	Ala	Arg	Gly	Ser		
			50					55					60				

<210> 30  
 <211> 477  
 <212> DNA  
 <213> Triticum aestivum ADC GENE

<400> 30  
 cttgggtggg tttgacactg cacatgctgc tgcaaggtac gtacaaattt aattaagcac 60  
 gtacgcagta cataattgtg atgtgatcat cacctgaacc acctgtactg caactctgaa 120  
 gttatgtctc cactctgttc atttcaccgt gccaaattga ccttgggatg ttccgcaggg 180  
 cgtacgatcg agcggcgatc aagttccgcg gcgtcgacgc cgacataaac ttcaacctca 240  
 gcgactacga ggacgacatg aagcaggtga tcagcaaagc caccaaccag tgttcctcat 300  
 ccaaccaa at tattcagatg cagagtgc at tagtactgtt gttgaaactg atgaactgaa 360  
 gaaattctga ctgtgtgttg kttgggtggat gatctggatc agatgaaggg cctgtccaag 420  
 gaggagttcg tgcacgtgct gcggcggcag agcgccggct tctcgcgggg cagctcc 477

<210> 31  
 <211> 65  
 <212> PRT  
 <213> Triticum aestivum ADC PROTEIN

<400> 31  
 Gly Gly Phe Asp Thr Ala His Ala Ala Ala Arg Ala Tyr Asp Arg Ala  
 1 5 10 15  
 Ala Ile Lys Phe Arg Gly Val Asp Ala Asp Ile Asn Phe Asn Leu Ser  
 20 25 30  
 Asp Tyr Glu Asp Asp Met Lys Gln Val Lys Gly Leu Ser Lys Glu Glu  
 35 40 45  
 Phe Val His Val Leu Arg Arg Gln Ser Ala Gly Phe Ser Arg Gly Ser  
 50 55 60  
 Ser  
 65

<210> 32  
 <211> 489  
 <212> DNA  
 <213> Zea mays ADC GENE

<400> 32  
 cttaggtgag cagcaataag cagatcgatc tgcagcataa atttcccgtt attaactagt 60  
 tcgtgatctc gatcgaatgg cctaattaac cgattcgggtg atctggccga tggccaatct 120  
 acgcaggtgg attcgacact gctcatgccg ctgcaaggta acgatcaatc catccatcca 180

cccttgtcta gctacccac cgaccggccg gattaatgga ccgctagttc tcgggacggg 240  
 cttgctgcag ggcgtacgac cgagcggcga tcaagttccg cggcgtcgac gccgacataa 300  
 atttcaacct cagcgactac gacgacgata tgaagcaggt acatacacga gtgttgttgc 360  
 agctagcacc gactgaaaca tctgctgaac gtacactcat ggctgtgca ccagatgaag 420  
 agcctgtcca aggaggagtt cgtgcacgcc ctgcggcggc agagcaccgg cttctcccgt 480  
 ggcagctcc 489

<210> 33  
 <211> 65  
 <212> PRT  
 <213> Zea mays ADC PROTEIN

<400> 33

Gly Gly Phe Asp Thr Ala His Ala Ala Ala Arg Ala Tyr Asp Arg Ala  
 1 5 10 15  
 Ala Ile Lys Phe Arg Gly Val Asp Ala Asp Ile Asn Phe Asn Leu Ser  
 20 25 30  
 Asp Tyr Asp Asp Asp Met Lys Gln Val Lys Ser Leu Ser Lys Glu Glu  
 35 40 45  
 Phe Val His Ala Leu Arg Arg Gln Ser Thr Gly Phe Ser Arg Gly Ser  
 50 55 60

Ser  
 65

<210> 34  
 <211> 6  
 <212> PRT  
 <213> Zea mays, Avena sativa and Triticum aestivum

<400> 34

Asp Cys Gly Leu Gln Val  
 1 5

<210> 35  
 <211> 21  
 <212> DNA  
 <213> Zea mays, Avena sativa and Triticum aestivum

<400> 35  
 ggactgtggg aaacaagttt a 21

<210> 36  
 <211> 21  
 <212> DNA



<213> Zea mays, Avena sativa and Triticum aestivum

<400> 36

ggactgtggg aaacaagttt a

21

<210> 37

<211> 21

<212> DNA

<213> Zea mays, Avena sativa and Triticum aestivum

<400> 37

ggactgcggg aagcaggtgt a

21

<210> 38

<211> 7

<212> PRT

<213> Zea mays, Avena sativa and Triticum aestivum

<400> 38

Lys Tyr Arg Gly Val Thr Leu

1

5

<210> 39

<211> 23

<212> DNA

<213> Zea mays, Avena sativa and Triticum aestivum

<400> 39

aagtatagag gtgtcacttt gca

23

<210> 40

<211> 23

<212> DNA

<213> Zea mays, Avena sativa and Triticum aestivum

<400> 40

tgcaaagtga cacctctata ctt

23

<210> 41

<211> 23

<212> DNA

<213> Zea mays, Avena sativa and Triticum aestivum

<400> 41

tgcaaagtga cacctctata ctt

23

<210> 42

<211> 23

<212> DNA

<213> Zea mays, Avena sativa and Triticum aestivum

<400> 42	
aagtacaggg gcgtcacctt gca	23
<210> 43	
<211> 23	
<212> DNA	
<213> Zea mays, Avena sativa and Triticum aestivum	
<400> 43	
tgcaaggtga cgcccctgta ctt	23
<210> 44	
<211> 23	
<212> DNA	
<213> Zea mays, Avena sativa and Triticum aestivum	
<400> 44	
tgcaaggtga cgcccctgta ctt	23
<210> 45	
<211> 18	
<212> DNA	
<213> Zea mays, Avena sativa and Triticum aestivum	
<400> 45	
gcaaggtgac gcccctgt	18
<210> 46	
<211> 17	
<212> DNA	
<213> Zea mays, Avena sativa and Triticum aestivum	
<400> 46	
ggtgacgccc ctgtact	17
<210> 47	
<211> 16	
<212> DNA	
<213> Zea mays, Avena sativa and Triticum aestivum	
<400> 47	
gtgacgcccc tgtact	16
<210> 48	
<211> 13	
<212> DNA	
<213> Zea mays, Avena sativa and Triticum aestivum	
<400> 48	
gtgacgcccc tgt	13